

## U.S. troops plan for long stay in gulf

Associated Press

NEWBUNKPORT, Maine — President Bush ordered Defense Secretary Dick Cheney back to the Persian Gulf, officials said Monday, as American combat troops arriving in Saudi Arabia were told to brace for a long stay.

Bush said he would break away from his vacation for a day and return to the White House on Tuesday for peace-reduction talks with his advisers and a briefing at the Pentagon on the military faceoff with Iraqi President Saddam Hussein.

White House press secretary Marlin Fitzwater said the naval barricade against Iraq had forced two or three ships to turn back at sea, and he defended "the embargo is being maintained" on shipping into and out of the Gulf. He also defended the inclusion of U.S. ships to Iraq under global operations, saying the purpose of the embargo is "to put the pinch on them."

Fitzwater said the Persian Gulf crisis underscores the need for a budget-cutting agreement between Congress and the White House.

"There needs to be a unity of purpose in this country not only about the conflict in the gulf but also about our spending issues and about where the budget is going," Fitzwater said.

at a Saudi air base and summed up the concerns of many American soldiers: "Yes, it's scary. You have to build up the courage and put the fear aside and do what you have to do." The soldier, from Claymont, Del., had a gas mask on his belt. They are telling us to be ready to stay four to six months," said the soldier. The military did not permit troops to be identified by name.

The Pentagon said Cheney will fly to Saudi Arabia on Friday to visit U.S. troops and meet with the kingdom's leaders. It is his second trip to the Persian Gulf since Iraq invaded Kuwait on Aug. 2.

Pentagon spokesman Pete Williams said Cheney may visit other countries before returning to Washington next Tuesday. The secretary stopped in Egypt and Morocco on his earlier trip to Saudi Arabia.

Bush, meanwhile, is to return to his oceanside retreat on Wednesday and then shuttle back and forth to Washington between now and Labor Day.

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"There needs to be a unity of purpose in this country not only about the conflict in the gulf but also about our spending issues and about where the budget is going," Fitzwater said.

## Dove to serve time for tax fraud, theft

Associated Press

PROVO — The former owner of a local grocery store was sentenced Monday on his guilty plea to felonies counts, including tax evasion and theft by deception.

Don Dove, 54, currently living in Provo, Nev., and working at his father-in-law's grocery store in Logan, Nev., was ordered by 4th District Judge Boyd L. Park to report to Utah County Sheriff's Office on Aug. 10 for transport to the Utah State Prison.

Park sentenced the former owner of Dove's Happy Service markets to one-to-15-year terms on each of two second-degree felonies.

Dove was also sentenced for up to 10 years on each of the three third-degree felonies.

The sentences are to run concurrently.

Dove originally was charged with embezzlement, but agreed to plead guilty to eight counts in a plea bargain arrangement.

The other counts were dropped.

The eight counts included a pattern of unlawful activity, theft by deception, communication fraud and two counts of tax evasion, all second-degree felonies, and three third-degree felonies of failure to pay taxes.

During Monday's sentencing hearing, Dove testified that he diverted sales tax money to keep his failing business afloat.

The Utah County native said an investor was unable to provide him with \$2.6 million in 1983, so Dove chose to pay bills and only pay one-third of the sales tax he owed the state.

By 1988, when he lost his business, he was withholding two-thirds of his state taxes, he said.

"Had I not paid my suppliers or equipment people or landlord I would have had to declare bankruptcy," he said.

Dove told the court that he felt his only choices were to not pay taxes or go bankrupt.

## Road work hurting sales

By NEAN EDDY  
Universe Staff Writer

Several businesses around the University Avenue construction project are suffering a lack of sales as a consequence of the road work and are continuing with the Utah Department of Transportation's timing.

Don Lesser, owner of Fryer's Restaurant, said, "I have a hard time understanding why the state couldn't do the work during the best business season."

Lesser said, "May through June are our slowest months, and it's important to have the avenue open from August through September for business to make up for the lost revenue in the slow months."

Don Meacham, assistant district director of preconstruction for the Utah Department of Transportation, said a major reason the construction started in August was because of the money received from the state. The fiscal year begins July 1989 and goes through June 1990.

Meacham said this would hinder any ongoing construction date in May or June. Another factor for starting late was the delay of the design for the reconstruction project.

On Aug. 6, crews from UDOT began the second phase of the University Avenue reconstruction, which runs from 1280 North to 1650 North, north of the BYU diagonal.

The work began on the north end of the street, at the intersection of University Avenue and the diagonal. The contract specifies that the intersection must be open by Sept. 7, or the construction company faces financial penalties of \$10,000 for each Saturday it is not completed.

Freeman, part owner of the business and Glenwood apartments, said, "It's a major inconvenience for us to rely on some of the renters to move out prior to school start."

Harding, Provo's ombudsman, said the reconstruction of University Avenue was needed because



Universe photo by Bryan L. Anderson  
Construction on University Avenue has forced UDOT to close the street to traffic. The diagonal at University Avenue and University Parkway must be open by Sept. 7.

the street was worn out, and its repair was necessary.

The estimated cost of resurfacing University Avenue is \$770,000.

Marv Christiansen, project engineer for UDOT, said the construction



Sailors on the U.S.S. Saratoga saluted the flag last Tuesday as the aircraft carrier left Florida and began a six month tour that will include deployment in the Persian Gulf and possible participation

in a U.S. barricade to stop Iraqi oil trade. Monday an Iraqi oil tanker was unable to dock at a Saudi Arabian port because tugs used to guide the ship into port did not appear.

## Gulf quarantine stops Iraqi tanker

Associated Press

The Persian Gulf war of wills settled into one of economic attrition Monday as an Iraqi oil tanker was unable to dock or load at a Saudi Arabian port. A barricade of U.S. warships stood ready to block all trade with Iraq.

The Iraqi tanker al-Qaddisiyah, which can hold 900,000 barrels of oil, was prevented from docking at the Saudi terminal at Yanbu on the Red Sea because tugs necessary to guide ships did not appear, according to Saudi diplomatic sources who spoke

on the condition of anonymity.

If tankers cannot load, it effectively cuts off Iraq's last major oil export — a pipeline across the Arabian peninsula from Iraq. Turkey closed two pipelines carrying Iraqi oil last week.

Earlier, two other tankers voluntarily joined the boycott. Ships from Norway and India were scheduled to fill up at the Yanbu terminal, but the customers did not show up after the U.N. resolution.

Also, the Iraqi oil tanker Tarik ibn Ziyad was denied access to a Portuguese repair yard and cruised toward international waters, officials

said in Lisbon. The work was contracted before the crisis, but Portugal said it would violate a trade embargo.

White House press secretary Marlin Fitzwater said the purpose of the embargo is to stop the Iraqi war machine.

"You don't give them the essentials that enable them to carry on the war," Fitzwater said. He said the embargo covers food imports as well as military supplies and other goods.

An international quarantine was imposed against Iraq for its lightning conquest of Kuwait and its massing of troops near Saudi Arabia, which has

the world's largest oil reserves. Iraqi President Saddam Hussein launched the Aug. 2 blitzkrieg in a dispute over oil, land and money.

Pakistan voted to send troops Monday to help defend Saudi Arabia, joining ground forces from the United States, Egypt, Morocco and Syria. Squadrons of warplanes and a multinational armada, joined Monday by warships from Belgium and the Netherlands, have also massed in the region since Aug. 2.

Saddam called for a "holy war" against the Saudi royalty and Western forces now gathering.

## Many options available for student jobs

By ROSEMARY WELLS  
Universe Staff Writer

BYU students may find that getting a job may be a full-time job in itself.

"In Fall and Winter (Semesters) we have about 7,000 to 8,000 on-campus jobs available to students. In Spring and Summer (Terms) we have only about 4,000," said Penny Morrell, manager of Student Employment.

"Anywhere from 1,000 to 3,000 new applicants will apply this fall," Morrell said. However, many of the 7,000 jobs will be filled by students who work on-campus now and will be re-hired, she said.

Because of the number of students applying for on-campus jobs at the beginning of the school year, a numbering system is used. "Students may obtain a number by calling or going in person to Student Employment Monday through Friday between 8 a.m. and 5 p.m.," Morrell said.

According to Student Employment, nearly 1,900 students have received their numbers. Numbers

will continue to be assigned until mid-September.

Job listings are posted each evening on the job boards located in the Student Employment Office, C-40 ASB, and across the hall from the Post Office, 198 ELWC.

If a student is interested in a position and holds a number within a designated range, they may attend an interview session the following day. A screener will determine if the person is qualified, the student will surrender their number and will be sent to the department requesting a worker. If the student does not get the job, they may receive a new number.

"It's a good idea for students to keep a block of time open. Don't close your options, look on and off campus and be willing to take anything that will help you," Morrell said.

For students interested in off-campus jobs, an off-campus community board is located in the Abraham O. Smoot Administration Building. The board posts positions called in by local businesses and residents that need help. These jobs range from

telemarketing to yard work, Morrell said.

Another option for students is Job Service, 1550 N. 200 West in Provo.

"Job Service is a government agency that helps employers find employees and applicants find jobs," said Elaine Bonham of Employee Relations. Services are available at no charge, Norman Anderson, placement supervisor, said.

Students may pick up an application from Student Employment or they may go to Job Service, Bonham said. Once an application is complete, it is put into the computer and matched to appropriate jobs listed with the company.

A card is then sent to the student notifying them of the available position. If the student is interested in the job, they contact Job Service to arrange an interview with the employer. "The employer chooses who he wants," Bonham said.

He said students need to know their schedule before they apply.

Another local employment agency, SOS Tempo, See JOBS on page 6

## Provo OK despite drought

By SHAUN STAHL  
Universe Staff Writer

Utah is in a drought for the third straight year, but if present water use is maintained, Provo should slide through the hottest part of this year with enough water leftover to wet the city's whistle, said the director of the city's water supply.

"It's scary," said Merrill Bingham. "Although, we figure if we can make it to the first of September, we will be all right. Heavy water demands drop way off at that time."

The rivers and underground streams that replenish the city's water supply are 10 million gallons lower

than the usual output. Provo residents continue to use an average of 50 million gallons of water per day, Bingham said.

"We've decided we're ready to fight a flood next spring," Bingham said, referring to the cycle of wet years that usually follow drought years.

## Springville outdoor water use under mandatory restriction

By ANDREA CORBETT  
Universe Staff Writer

A mandatory outside watering schedule has been issued in Springville after the failure of a voluntary water conservation program, said the assistant to the Springville mayor.

Jo Evans said not enough residents were following the voluntary water conservation schedule. In response to the failure of the voluntary program, the City Council enforced a new city water ordinance.

The initial program was an odd-even schedule for watering lawns and gardens. Water Superintendent Bert Oakey said, "I don't know why, but the schedule just wasn't being followed. We just didn't get very good results. Maybe people didn't feel compelled to follow the restrictions this year."

Evans said the new schedule allows residents to water for a maximum of three hours on two days during the week, depending on street addresses.

Businesses, schools and churches are on a slightly different system. They are asked to cut back 25 to 50 percent on the amount of water normally used, Evans said.

No watering will be allowed on Sundays, which will enable the city's water storage tanks to refill to an appropriate level, he said.

The city's water reservoir is filled from springs in Spring Canyon. This year there has not been enough water and the tanks have not been at a comfortable level,

Evans said. This has also caused the water pressure to be low in certain parts of the city.

The city is also concerned about having enough water in the tanks to be able to respond to fires or other public safety concerns, Evans said.

Oakey said, "We've gone into this new schedule in the hopes of keeping up our water reserves. We've even sent schedules out to all city water users so there will be no reason for them not to know."

Evans said not many citizens have complained about the mandatory watering schedule, though quite a few residents have complained about their neighbors not following the schedule.

Residents that refuse to follow the schedule will be reminded of the program on the first offense, Evans said. The second offense will cause the city to turn off the resident's water and the third offense will be dealt with by a citation, she said.

Jim Carter, a water service technician, said it is already apparent the water program is working. "The water level on Monday was already higher and it seems to be doing some good."

Oakey said city water users should water early mornings and evenings. Residents should also tend hoses and sprinklers properly and try to conserve as much water as possible.

"We'll be able to get by with this new schedule, but we want to make sure everyone has a good opportunity to use the water," he said. "Maybe this will be a more effective watering program."

people didn't feel compelled to follow the restrictions this year."  
— Bert Oakey  
Springville water superintendent



# NEWS DIGEST

Compiled from staff and news service reports

## Second Swiss hostage freed in Beirut

DAMASCUS, Syria — Kidnappers in south Lebanon freed a Swiss hostage after 10 months of captivity, releasing Elio Erriquez to Syrian officials there who took him to Damascus and handed him over to the Swiss ambassador early Tuesday.

"I am happy, very, very happy," Red Cross worker Erriquez, 24, said at the Foreign Ministry before being whisked away by Swiss Ambassador Eric Pfister minutes after his arrival in the Syrian capital.

Another Swiss hostage, Emanuel Christen, 33, was freed on Wednesday. Like Erriquez, Christen was an orthopedic technician with the International Committee of the Red Cross. Both men were kidnapped on Oct. 6, in Sidon, 25 miles south of Beirut.

In Beirut, a late-night communique from a group calling itself the Organization of the Palestinian Revolutionary Squads said Erriquez was handed over on Monday to a representative of Brig. Gen. Ghazi Kanaan, chief of Syria's military intelligence in Lebanon. The group said earlier that Erriquez was freed at the behest of Syria, Libya and Algeria.

Syria's state minister for foreign affairs, Nasser Qaddour, turned the hostage over at 12:03 a.m. Tuesday after he was driven from Lebanon.

Erriquez, wearing a white shirt and white pants, looked pale but well as his ordeal ended. He was driven to Pfister's residence in Damascus.

## Berlin Wall anniversary celebrated

WEST BERLIN — Flowers were laid beside a cross honoring a teen-ager who was slain trying to escape to freedom as Germans from East and West on Monday marked the 29th anniversary of the Berlin Wall.

The ceremony, the first joint memorial of the Aug. 13, 1961, construction of the Berlin Wall, included a prediction by a local politician that the scar left by the crumbling barrier will never fade.

East German Defense Minister Rainer Eppelmann demanded criminal probes of those responsible for the shoot-to-kill orders at the wall under the former Communist regime.

Eppelmann said the now-ousted Communist officials must be brought to justice "in a fair way." Communist border soldiers killed 80 East Germans making dashes for freedom at the wall, while hundreds of others were caught and imprisoned for trying.

Germans are engaged in an emotional debate over whether the soldiers themselves should be brought to trial.

## Charges filed against Challenger program

MANTI — Kane County officials filed criminal charges Monday against the Challenger Foundation and its director in the wake of alleged abuses and the death of a girl enrolled in the wilderness therapy program.

With the criminal complaint, Sheriff Maxwell Jackson fulfilled a month-long promise to charge the program and founder Stephen Cartisano with negligent homicide in connection with the June 27 death of 16-year-old Kristen Chase.

The complaint signed by 6th Circuit Judge David L. Mower also named Challenger counselor Lance Jagger.

Cartisano and Challenger additionally were charged with six counts of child abuse. Mower set a Sept. 13 arraignment date.

The charges are the latest in a series of setbacks for the embattled wilderness survival program for troubled teens.

Chase, of Ponte Vedra Beach, Fla., collapsed while hiking atop the rugged Kaiparowits Plateau in the southern Utah desert with three other youngsters. An autopsy revealed she died of heat stroke, likely complicated by altitude and near triple-digit temperatures.

## Barry turns independent, may run again

WASHINGTON — Mayor Marion Barry dropped his Democratic affiliation and declared himself an independent Monday, saying he wanted to "keep (his) options open" for a possible political comeback.

Barry political advisers have said the mayor, who was convicted Friday of a misdemeanor cocaine possession charge and acquitted of another, intends to run for a city council seat. But Barry refused to rule out anything — including another bid for mayor.

His trial jury was unable to reach a verdict on 12 charges — including three felony perjury counts — and the U.S. attorney has said he will decide within the next month whether to retry Barry.

Barry, at a news conference, was asked how it would feel running against an old colleague who is also seeking an at-large council seat.

"You're assuming I'm not running for mayor," Barry retorted.

Pressed on the issue, Barry said, "I have a lot of options...and I believe I still have a significant contribution to make to the city I love."

## Fire causes power outage in Manhattan

NEW YORK — An electrical fire knocked out power to the skyscrapers of Manhattan's financial district Monday, disrupting stock trading, stranding people in elevators and sending thousands home early through traffic-snarled streets.

The midday cable fire at a Consolidated Edison substation spewed plumes of black acrid smoke into the air over the southern tip of Manhattan. Workers poured out of buildings like the World Trade Center and South Street Seaport in search of pay phones and cool drinks.

Many subway lines and commuter tunnels were stalled or shut down; thousands walked across the Brooklyn Bridge and rush-hour ferry service began early.

The outage affected 4,150 customers, mostly businesses employing tens and possibly hundreds of thousands of employees.

Con Edison issued an emergency plea to cut energy use, worried about a possible overload that could knock out additional networks. The utility restored power to about three-quarters of the affected area by 5 p.m. by re-routing current through other substations.



A car and truck collided on 920 South in Provo Monday. The driver of the car, Kendrea Goddard, 18, of Cedar City died after she was taken to UVRMC.

# Foundation aids homeless kids

By KIM NORMAN  
Universe Staff Writer

Jerry and Jay have spent the last two weeks camping with their mother by the river. There is no room at the homeless shelter, and the waiting list is long. Everyday their mom leaves them in a nearby park while she looks for housing and employment.

A new foundation has brought hope to children like Jerry and Jay. The Homeless Children's Foundation, organized in 1989, is a new advocate for homeless children in the Salt Lake City area.

"We started out wanting to have day care for homeless kids," said Sandy Hutchinson, the foundation's scholarship coordinator.

The foundation provides day care for Jerry and Jay from 7 a.m. to 5 p.m. so their mother can job hunt, apply for food stamps and do the things necessary to get her children off the streets.

"There are waiting lists at the shelters, and every day a kid is on the street they get worse," Hutchinson said.

In fall 1989 the foundation received a much welcomed grant from the Hasbro Corporation, Hutchinson said.

"Our overall goal is to advocate for homeless children," said Susan Hill, project director.

"Through community study we have learned that the biggest need for kids is to have a wonderful place to go

so moms can get out of the shelter," Hill said.

The foundation focuses on children, not adults, Hutchinson said. "Parents don't have to do anything for their kids to qualify. The only qualification is being a homeless kid," Hutchinson said.

"If a parent wants to look for a job, we'll help them," Hutchinson said.

The foundation focuses on children between the ages of two and five, but has accepted older and younger children. The oldest participant is 12 years old and the youngest is an infant, Hutchinson said.

"We're getting to the kids before it is too late and providing the basic needs of food, clothing and education," Hutchinson said. To date, the program has helped 30 children.

"Our goal this summer is to have our own center," Hill said. The foundation has been looking for a building to rent in Salt Lake City, but so far it has not been successful.

"We need an acceptable space in the downtown area so we are convenient to the people we service," Hill said.

While waiting for a building, the foundation has relied on the help of outside consultants and other organizations to accommodate the center.

The foundation wants to lobby with other low-income interest groups for national legislation to provide immediate child care for homeless families, Hutchinson said.

# Elevator motor burns, causes ASB evacuation

By BENJAMIN J. BEUTLER  
Universe Staff Writer

The Abraham O. Smoot Administration Building was evacuated at approximately 1 p.m. Thursday, a University Police officer said.

The evacuation was caused by a burned-out elevator motor, Lt. Steve Baker said. "One of the motors in A-7 ASB just burned itself out and filled the room with smoke, which set off the fire alarm," he said.

The motor was damaged, but that was all," Baker said. The amount of damage is still unknown.

Randy Gehring, supervisor of the ASB Copy Center, said he was

amazed people in the building did not respond immediately to the alarm.

"There were people standing by the off-campus job board, which is right across the hall from the room where the smoke was, when the alarm went off and they just kept on writing down their information," he said.

However, University Police responded quickly to the alarm and got the people out, Gehring said. "Security was right on top of it."

Suzette Court, 20, a payroll clerk and junior from Payson, Utah, majoring in dance specialization, said she was only outside for about 10 minutes before University Police opened the building.

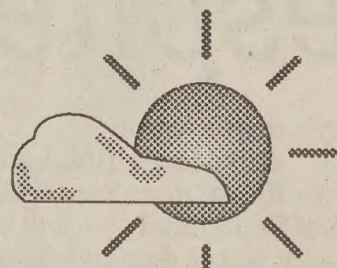
## WEATHER

### SLC/Provo

Today: Fair. Highs in the 90s, lows from 60-70.

Sunrise: 6:37  
Sunset: 8:28

Wednesday: Fair. Highs from 80-90, lows from 60-70.



Fair

Source: KSL Weather Line

STEVE DAVIS / Universe

## THE UNIVERSE

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### Quote of the Day:

"We should all be concerned about the future because we will have to spend the rest of our lives there."

— Charles Franklin Kettering

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# SPORTS

## Sting secure playoff berth with loss

DAN WILLIAMS  
Reverse Sports Writer

ae Salt Lake Sting clinched a  
off spot Saturday, despite a 2-1

overtime loss to the San Francisco  
Blackhawks. The Sting finished the  
regular season tied with San Fran-  
cisco for first place in the North Divi-  
sion of the Western Soccer League.

San Francisco qualified as the first  
place team because of a better goal  
differential. The Blackhawks scored  
nine goals more than they gave up  
compared to the Sting's differential of  
four goals. The Sting will play the  
third place Colorado Foxes for a  
chance to play the Blackhawks again.

The series with Colorado is a two  
game series. The first game will be  
Saturday at Colo-  
rado, followed by  
an Aug. 22 game in  
Salt Lake City. If  
each team wins one  
game a 30-minute third game will be  
played to decide the winner immedi-  
ately following the second game. If  
after thirty minutes the score is tied,  
the series will be decided in a penalty  
shootout.

The winner of the Sting-Foxes se-  
ries will play one game in San Fran-  
cisco on Aug. 25 to decide who ad-  
vances as champion of the North  
Division to play the South Division

champion.

Ironically, the Foxes clinched a  
playoff berth the same way the Sting  
did.

Sunday night the Foxes lost 2-1 in  
overtime to the Portland Timbers.

Saturday the Sting took the lead  
1-0 on a goal by forward George Pas-  
tor off an assist from Dzung Tran in  
the 39th minute.  
The goal was Pas-  
tor's 14th of the sea-  
son and tied him  
with Chance Fry of  
the Seattle Storm  
for the league scor-

ing title.

The Blackhawks came back seven  
minutes into the second half to tie the  
game. The game remained tied  
through regulation and was still knot-  
ted 1-1 after two overtime periods.

In the penalty shootout, both teams  
made their first four attempts. Pastor  
missed the Sting's fifth attempt, and  
Blackhawk Kenny Martin scored his  
shot for the win.

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## Open letter to the AD

By DALLIN L. READ  
Sports Columnist

Dear Glenn,

Arkansas just moved to the SEC,  
you know. And SDSU wants to go  
anywhere it can, but everyone knows  
their problems are deeper than the  
league they are in.

I think now is a good time to evalu-  
ate where BYU stands, don't you?  
How far can we progress playing this  
kind of punchless schedule year after  
year? Or is playing who we play a bit  
of charity on our part, namely to that  
team north of Salt Lake City?

If that's the case, let's drop Miami  
now (and Notre Dame the following  
few years) and add SUSC and Dixie  
College to the schedule. It would help  
them monetarily, and we could start  
another "Utah rivalry" that we so  
desperately need. You have sug-  
gested adding two teams to the WAC;  
SUSC and Dixie would be great  
choices.

You have the ability to powerfully

vault BYU's sports programs into the  
next century with a chance to make a  
real name for itself.

The assistant commissioner of the  
PAC-10 has told me "BYU has a good  
market." That hasn't always been the  
case. It's not time for BYU to think of  
the WAC, but of ourselves.

I've enjoyed watching BYU play  
big names, and would enjoy even  
more big names on a regular basis.  
Yes, it's fun to see your favorite team  
score 49 points in a half, but who is  
benefited?

I'd much rather watch BYU strug-  
gle for a few years in a real league. We  
would catch up in talent in areas we  
lack, and the fans could see real oppo-  
nents on real television stations at a  
decent hour.

I bleed BYU blue but could easily  
bleed orange or gold. I know Miami  
and Notre Dame will have strong pro-  
grams in 20 years.

Remember one thing, big fish  
starve themselves in little ponds.

### PAC-10 rumors false

By CHUCK AGEE  
Universe Sports Writer

Despite new rumors that BYU  
would join the PAC-10, BYU Athletic  
Director Glenn Tuckett denied any  
involvement.

"No real talks or inquiries have  
taken place between the administra-  
tion and PAC-10 officials," Tuckett  
said.

PAC-10 President Tom Hansen  
confirmed that a special meeting took  
place Saturday to discuss expansion.  
"Our discussion focused on the inter-  
nal ramifications of expansion. We  
have identified a large number of ar-  
eas that need to be explored, studied  
and reflected upon before any deci-  
sion can be made.

"We have not evaluated or targeted  
any institution from outside the con-  
ference. We are just trying to get a  
good grasp on all the different expan-  
sion elements."

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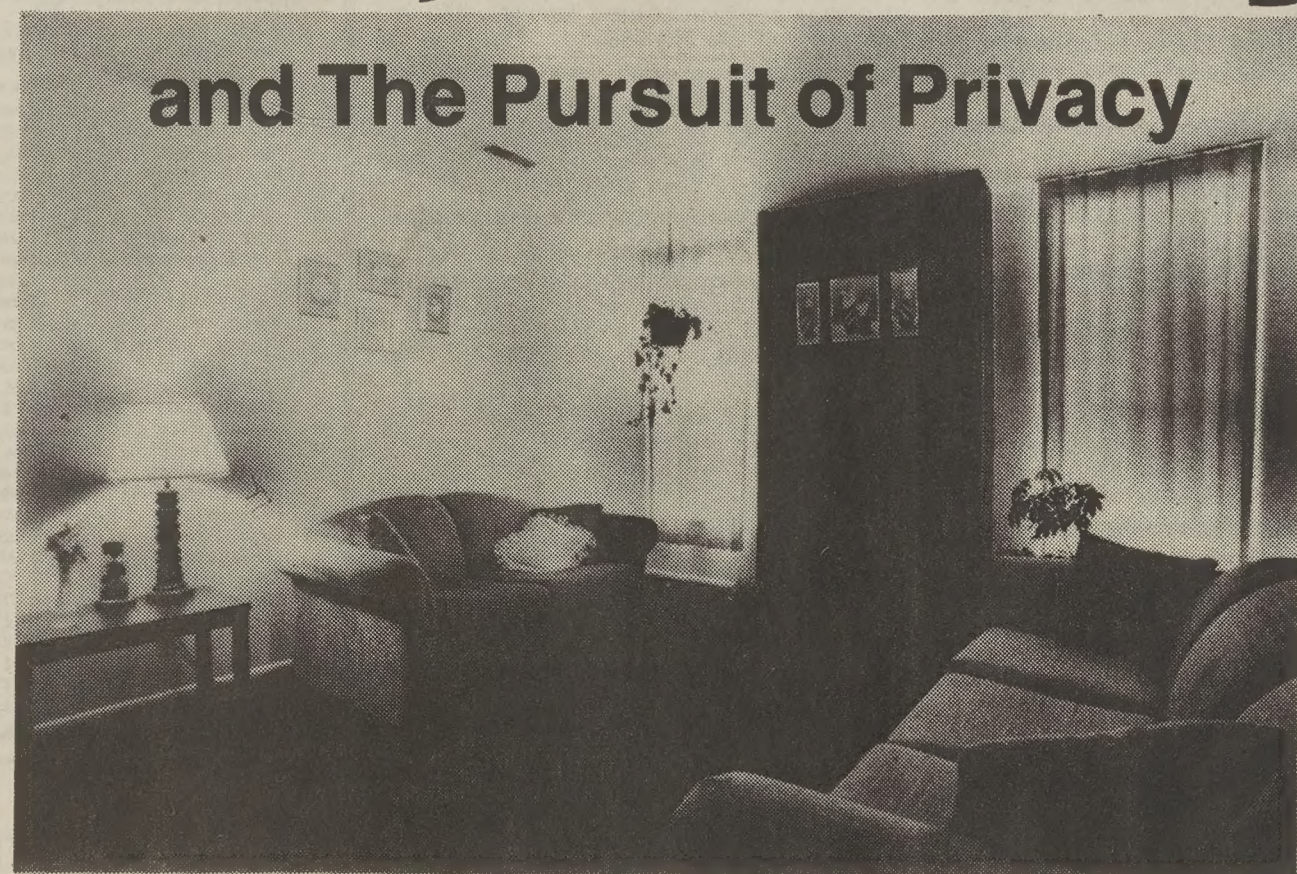
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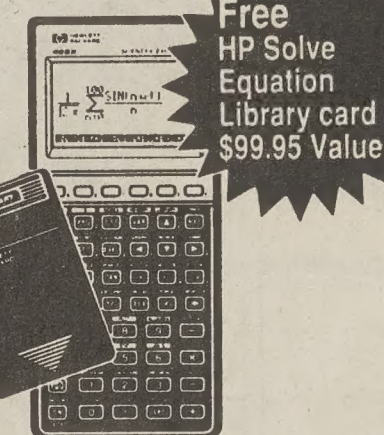
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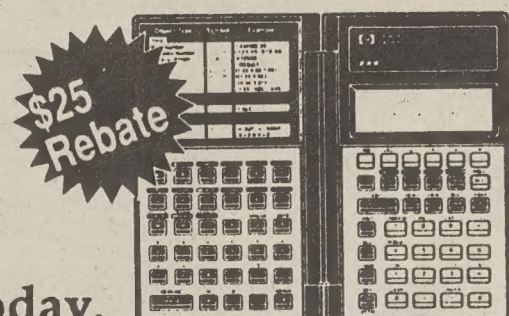
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# New pre-surgery drug will look like a lollipop

BRIAN CHAPMAN  
Universe Staff Writer

Researchers are close to producing a new way of administering pain medication that will help children overcome anxiety about surgery. Researchers in the Anesthesiology Department at the University of Utah are close to completing tests on a new method of administering pain medication that offers benefits not yet offered in conventional delivery systems.

Dr. Theodore Stanley, who is leading the research on the new revolutionary drug delivery system called Oral Transmucosal Sentanyl Nitrate, said the drug is primarily used to help children deal with anxiety before an operation.

Although the oral delivery system was originally developed to help children, it is also being tested as a pre-and post-operative medication system, Stanley said. It is also being tested for use by terminally ill cancer patients to help them regulate their own pain medication.

The oral delivery system, which looks like a Sugar Daddy lollipop, is placed in the mouth to administer a drug called Sentanyl, Stanley said. When it dissolves, the drug crosses the mucosal membranes and enters

the blood stream.

Stanley said this is important because it allows pain relief to enter the body faster than it would if it were administered through a pill. He said it also helps to eliminate stomach discomfort and other side-effects.

Dr. Jim Streisand at Primary Children's Hospital said the oral delivery system is a worthwhile delivery system because it is a non-evasive way of receiving medications.

The oral delivery system is a great way to administer medication to children because it helps to avoid needle trauma. Streisand said, "It works."

Stanley said it is possible that other pain medications can be used instead of Sentanyl, but Sentanyl has been in use for several years because it is a proven pain killer and it has already been approved by the Food and Drug Administration.

William Moeller, president of AnesthesiaCorp, an early stage pharmaceutical company, is sponsoring the testing and development of the delivery system.

The FDA approved the delivery system for clinical testing in 1985, Moeller said. The goal is to send a new drug application to the FDA at the beginning of 1991.

# DUI accidents, deaths are at a 10-year low

By BRIAN CHAPMAN  
Universe Staff Writer

The number of alcohol related accidents and deaths were the lowest in 10 years during 1989 because law enforcement agencies and courts are vigorously enforcing drunk driving laws, said the director of Utah Highway Safety.

Richard Howard said one of the reasons that there are fewer drunk drivers on the road is that the state has made tougher laws with stiffer penalties for driving while intoxicated.

Reed Riding, deputy court clerk of the 4th Circuit Court Provo Division, said a first offense DUI can receive up to \$1,500 in fines and spend six months in jail.

He said penalties can be lowered as the judge sees fit, but Utah state law requires the convicted DUI to spend a minimum of two nights in jail.

The state requires a minimum of 30 days in jail on the second DUI offense Riding said, but the fines remain about the same.

The state legislature passed a new law this year that makes a third-time DUI offense a 3rd degree felony that could require a five year prison sen-

tence and a \$10,000 fine, Riding said.

There were 82 alcohol-related fatal accidents in 1989. That compares to 105 deaths in 1988, said a report by the Department of Public Safety.

Howard said that since 1981 there has been a big push in Utah to control the amount of drunk drivers on the road. He said in 1981 there were only 7,900 arrests for driving while intoxicated, but in recent years that number has reached almost 14,000 because of the efforts of law enforcement.

According to the safety report there were more than 11,500 DUI arrests in Utah during 1989, which is the lowest since 1983. Howard said this is because drunk drivers are becoming harder to find.

The reason they are harder to find is that bars are becoming more aware of the problem and are providing rides to their patrons, Howard said. Programs such as a designated driver are also helping to lower the number of drunk drivers on the road.

Howard said Utah has one of the lowest alcohol-related accident and death rates in the nation. He said 45 percent of accidents nationwide are alcohol related, but in Utah only 27 percent accidents are alcohol related.

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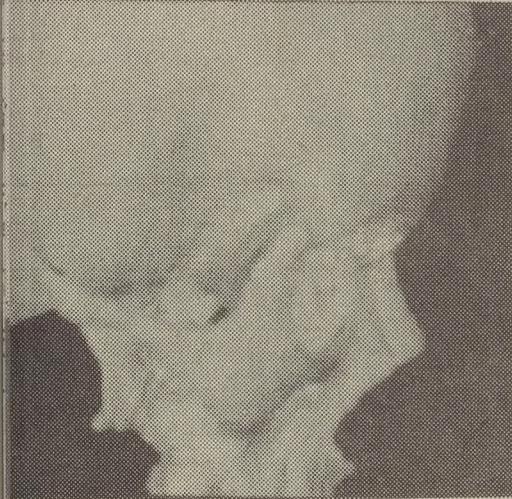
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# Surgery begins 3-dimensionally on a professor's computer screen



Courtesy of William Barrett  
A surface probe is used to create and analyze a computer image of a human vertebrae.

By KIM NORMAN  
Universe Staff Writer

On a BYU professor's computer screen, a heart's left ventricle opens and closes as blood pumps through. The heart tilts and rotates to reveal all sides and angles as it expands and contracts.

William A. Barrett, an associate professor in the Computer Science Department, is pioneering research in the field of three-dimensional medical imaging.

This involves arranging cross-sectional images into a three-dimensional surface image on a computer, Barrett said. "Typically we start with a series of 30 to 60 two-dimensional cross-

sectional images and then interpolate them into a uniform volume array," Barrett said.

Three-dimensional technology, when used in medicine, offers advantages over two-dimensional images such as a CAT scan, Barrett said.

The three-dimensional images also aid in reconstructive surgery, diagnostic radiology and prosthesis design, Barrett said.

"It is a very important tool in pre-surgical planning." If a doctor can visualize what he will be working on before surgery, time will be saved on the operating table, Barrett said.

The three-dimensional computer image allows a patient to be dissected graphically, rather than "opening them up," Barrett said.

Three-dimensional visualization is only half of the story, Barrett said. "The other side is interacting with the three-dimensional surface image."

Barrett and Shawn C. Becker, a graduate student in computer science from Phoenix, have developed techniques for extracting three-dimensional measurements directly and interactively from three-dimensional representations of surface anatomy, Barrett said.

This involves directly analyzing the anatomical surface through the use of morphometric tools, which include three-dimensional graphical "probes," Barrett said.

"It is believed that the morphometric tools will greatly enhance the diagnostic utility of (three-dimensional) visualization techniques," Barrett said.

Barrett has also developed techniques for terrain modeling that are more accurate than manual methods. This involves automated extraction of three-dimensional terrain from contour images, Barrett said.

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## Man walks away after robbing bank

By ANDREA CORBETT  
Universe Staff Writer

Key Bank of Orem was robbed Friday evening of an undisclosed amount of money, said a public safety officer.

Gerald Nielsen of the Orem Department of Public Safety said the money was stolen during business hours Friday evening.

Nielsen said a man described as being in his late 20s, about 5 feet 8 inches tall with a stocky build and reddish-brown hair, entered the bank and handed a teller a note.

The note told the teller he was robbing the bank, Nielsen said.

The suspect did not use a weapon, but lifted his shirt and displayed a small revolver in the waistband of his pants, Nielsen said.

The teller followed the note's instructions and placed the money from the drawer into a bag, Nielsen said. The suspect left the bank from the west exit and headed north on foot.

The Federal Bureau of Investigation responded to the call and took the video tape from the camera, Nielsen said.

Police believe they may have a photo of the suspect.

Because the FBI is handling the investigation and Key Bank is federally insured, the amount of money stolen will not be released.

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Lieutenant Steve Baker of the University Police places badge stickers on children at the "Kid-Kop Carnival" at Wymount Terrace on Friday. The carnival gave children the chance to talk with police officers and ride in police cars in order to familiarize them with the police department.

## Carnival lets kids meet cops

By BENJAMIN J. BEUTLER  
Universe Staff Writer

"Do you kill people?" "Why do you carry a gun?" "Do you arrest lots of people?" These questions and hundreds more were directed at University Police officers Friday at Wymount Terrace.

About 200 children from three to 13 gathered for the Kid-Kop Carnival and enjoyed games and the thrill of riding in a real police car.

Steve Nielsen, assistant manager of Wymount Terrace, said the main idea behind the carnival was to help children feel comfortable around the police. "Our purpose is basically to familiarize the kids with the police department, to let them know they are friends, not enemies."

"We also want the kids to know that they should report crimes if they happen to see them," Nielsen said.

The children were separated according to age and participated in games such as soccer and a baseball throw. Those waiting for a ride in one of the two police cars

received a police badge sticker and some important safety tips.

Lt. Steve Baker told the children how important it is to wear a seat belt when traveling.

"You should put your seat belt on as soon as you get in the car. It does not matter how fast you are going. If you do not have a seat belt on and get in an accident, you could end up hitting the windshield," Baker said.

Baker also told the children they should not believe everything they see about police officers on television or at the movies. "We do not run around with our guns out all the time," he said.

"Our main job is helping people. We help them do the right thing and stay out of trouble," Baker said.

Kathy Belliston, a resident of Wymount Terrace, said, "I think it is a good experience for the kids. It is good for them to see the police up close like this instead of just riding by in a car."

Paola Minharo, 7, said the sirens were the best part of the police car ride.

Universe photo by Kim Norman

## Garn gets highest approval rating

By STACIE LLOYD  
Universe Staff Writer

The semiannual evaluation of Utah's top-ranking elected officials was released last week by Dan Jones & Co.

According to the results of the opinion poll, Sen. Jake Garn once again had the highest approval rating.

The poll, taken in June, asked Utahns to evaluate Gov. Norm Bangerter and the members of Utah's congressional delegation, which includes Garn, Sen. Orrin Hatch, Rep. Wayne Owens and Rep. Jim Hansen. Garn received more than 70 percent of the people's approval, making him the most popular elected official in the state.

Bangerter received 56 percent of the people's approval, his first significant drop since his re-election in 1988. Lee Roderick, a managing editor at KSL, said Bangerter's 41-percent disapproval rating was by far the highest negative rating of all those evaluated, and something the governor will have to work to decrease.

Francene Giani, Bangerter's press secretary, said the governor's decrease in approval may have been caused by the strong stand he took recently on the initiative to remove the sales tax from food.

Hansen also received a marginally low approval rating of 50 percent. Jones found that Hansen had plunged 15 percentage points since the December poll, a fact which may affect his re-election efforts.

Owens, also facing re-election in November, took a 3 percent fall in his rating, leaving him with a 60-percent positive vote.

## JOBS

Continued from page 1  
rary Services, also hires BYU students to fill area job positions.

Ronald McCabe, office manager, said students must have a phone and their own transportation.

"There's more employment in the fall because many students leave their summer jobs. Many (students) are hired on as full-time help," he said.

McCabe said starting wages range from \$4 to \$5 an hour, depending on where the student is sent.

"Have a good attitude, work hard and be aggressive," McCabe said.

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## Orem starts disaster training plan

By MONICA HESS  
Universe Staff Writer

For several Orem neighborhoods, disaster preparedness will no longer mean just having a 72-hour kit on hand and waiting for help to arrive.

Beginning Aug. 16, two Lakeridge neighborhoods in south Orem will become part of a pilot program designed to "train volunteers from the community to assist emergency services personnel during large natural disasters," said Allen Short, Orem City's

Emergency Management coordinator.

Short, who has written the emergency operations plans for six Utah counties, said the aim of "Project Orem" is to improve the self-reliance and survival ability of the community in the event of a large-scale natural disaster. "The more organized a community is, the better off they'll be in an emergency situation," he said.

Lt. Jim Ruiz, federal coordinator for the National Disaster Medical System, said that in the event of an emergency, "state and federal help could be delayed up to 48 hours."

The idea for volunteer disaster preparedness training is not a new one, but if the Orem project is successful, it could become the "most unique program in the country," said Short.

Short and Ruiz learned about the "Citizens to the Rescue" program from Los Angeles City officials who went to Japan in 1985 to study disaster preparedness plans.

According to an article "Fire Engineering" by Christopher R. Burton, "What officials found was an extremely homogeneous society that had taken extensive steps to train entire neighborhoods in one aspect of alleviating the potential devastation that would follow a major earthquake."

"We felt that if this program would be successful in Japan, it would probably work here in Utah where the majority of the population is also culturally uniform."

Ruiz and Short will use a curriculum similar to the one being used in Los Angeles. Seven 2 1/2 hour classes will be held bi-weekly and will cover topics from CPR and emergency first

aid to evacuation and search and rescue methods.

The week after the training is given, said Ruiz, "we will have an exercise to practice what we've learned."

According to the Burton article, "Members of the community team are taught first to assess themselves, their families and their homes. If there are no injuries and their homes are secure, they then fan out into the neighborhood."

The Orem classes will be taught by professionals in the medical field along with expert contractors and firefighters, said Larry Layne, coordinator for Orem Community Hospital Disaster Response.

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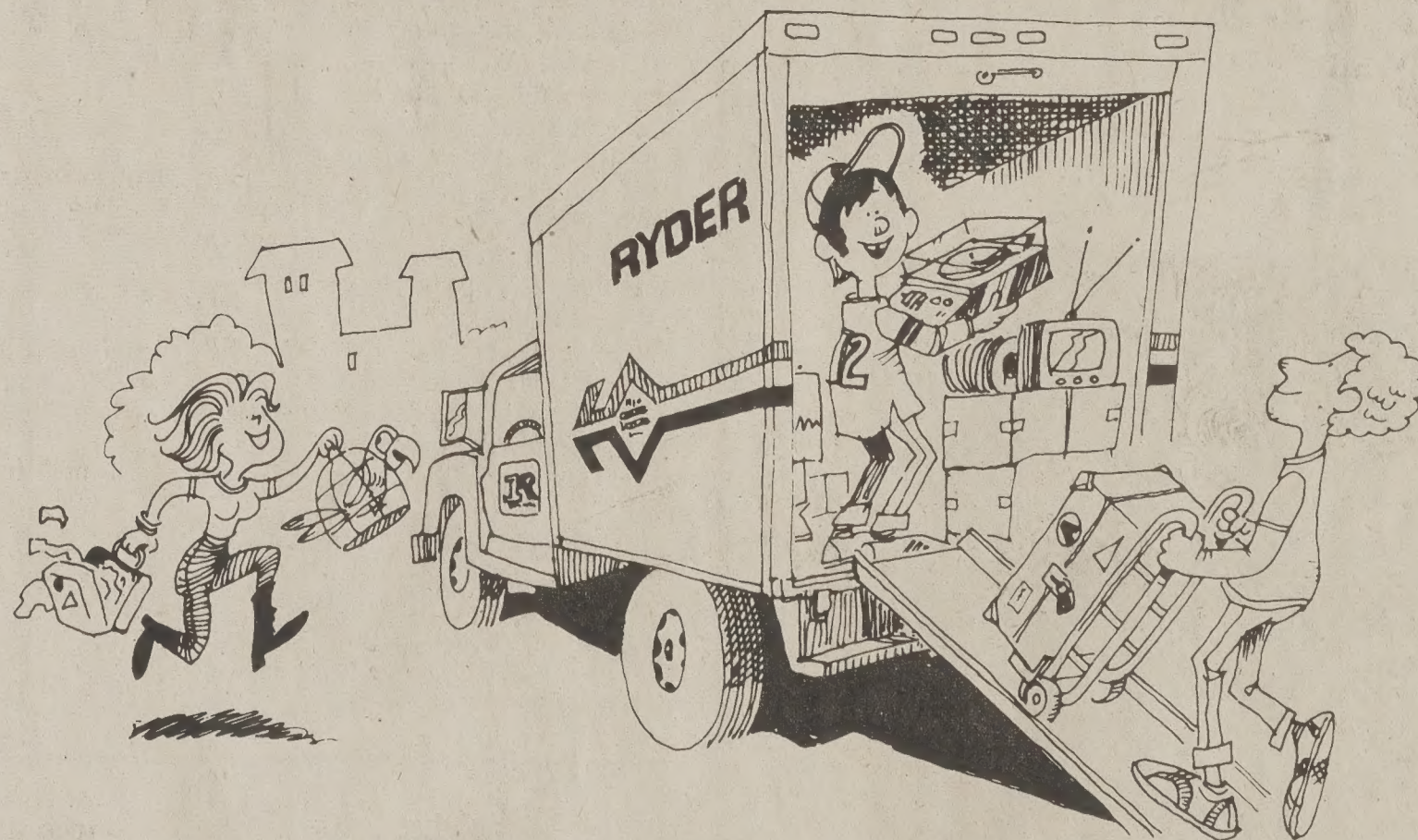
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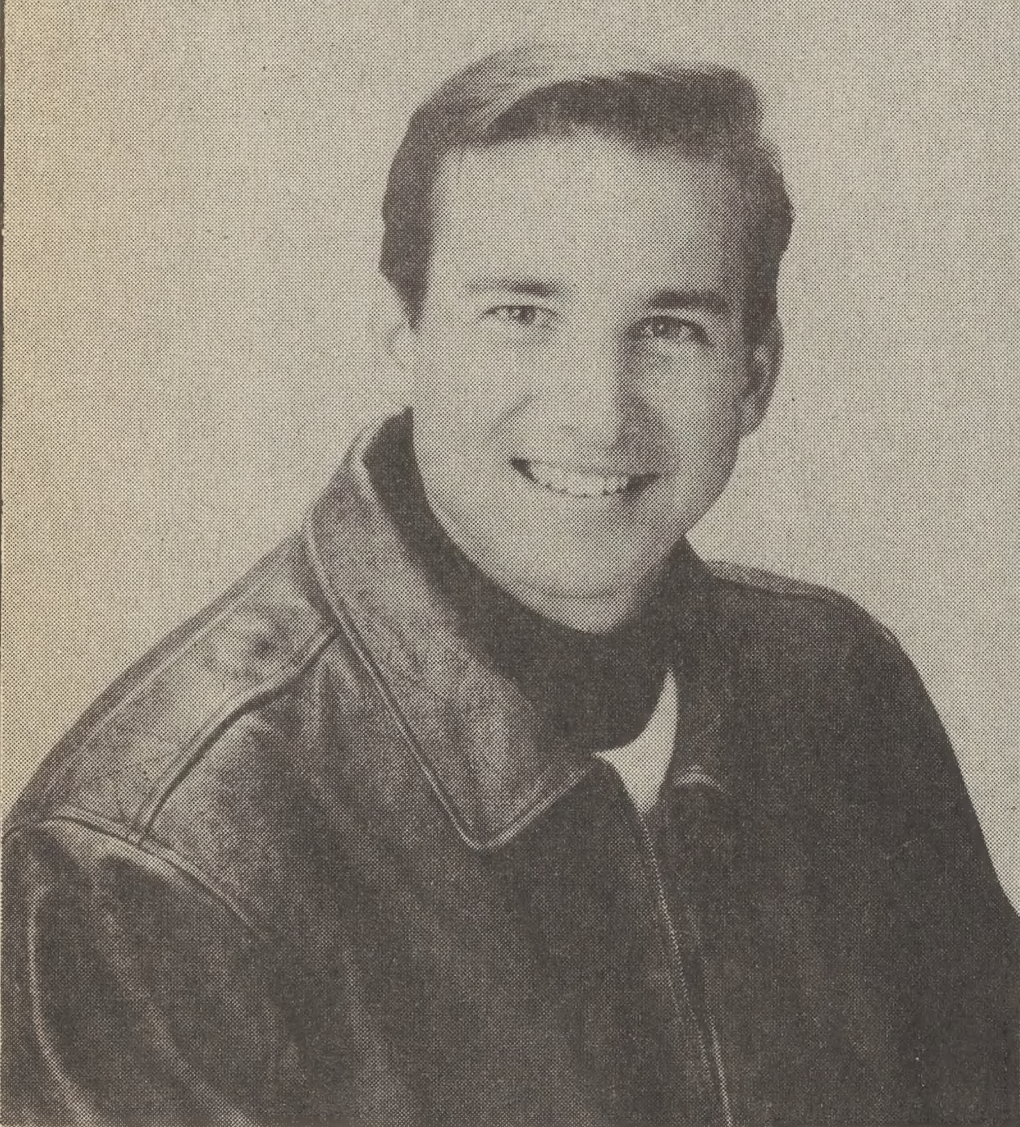
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